

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Original): A method of rendering a page, comprising:

starting obtaining operation for obtaining a page made by a markup language;

performing a text browsing mode operation on obtained part of data of the page in parallel with the obtaining operation of the page;

judging whether or not acquisition of definition information which is information to be applied to the entire page so as to render the page as designated by a markup language document of the page is finished; and

switching onscreen representation, depending on a result of the judging, from onscreen representation in a text browsing mode to onscreen representation in which the definition information is applied.

Claim 2 (Previously Presented): The method according to claim 1, further comprising judging whether or not predetermined user operation is performed,

wherein the predetermined user operation includes operation for canceling the switching of the onscreen representation, and

wherein the switching of the onscreen representation is cancelled if it is judged by the judging that the predetermined user operation is performed, and the switching of the onscreen representation is performed if it is judged by the judging that the predetermined user operation is not performed.

Claim 3 (Previously Presented): The method according to claim 2,

wherein the switching is controlled in three stages including a first stage from a start of the obtaining operation of the page to a time of completion of acquisition of text data of the page, a

second stage from the time of the completion of acquisition of the text data of the page to a time of completion of acquisition of the definition information, and a third stage after the completion of acquisition of the definition information, and

wherein the onscreen representation in the text browsing mode is made during the first stage, notification notifying execution of the switching is added to the onscreen representation in the text browsing mode during the second stage, and the onscreen representation in which the definition information is applied is made during the third stage if the predetermined user operation is not performed.

Claim 4 (Previously Presented): The method according to claim 3,

wherein the operation for canceling the switching of the onscreen representation is allowed only in the second stage.

Claim 5 (Previously Presented): The method according to claim 2,

wherein the operation for canceling the switching of the onscreen representation is allowed in a certain time period from completion of acquisition of the definition information.

Claim 6 (Previously Presented): The method according to claim 2,

wherein the operation for canceling the switching of the onscreen representation is allowed in a certain time period between a first time before completion of acquisition of the definition information and a second time after the completion of acquisition of the definition information.

Claim 7 (Previously Presented): The method according to claim 2,

wherein the onscreen representation in the text browsing mode is made during a first stage from a start of the obtaining operation of the page to a time of completion of acquisition of text data of the page, and

wherein the operation for canceling the switching of the onscreen representation is allowed in a certain time period from completion of acquisition of the definition information.

Claim 8 (Previously Presented): The method according to claim 7,

wherein the operation for canceling the switching of the onscreen representation is not allowed in the first stage, and operation for canceling acquisition of the data of the page is allowed in the first stage.

Claim 9 (Previously Presented): The method according to claim 2,

wherein the operation for canceling the switching of the onscreen representation includes at least one of scrolling operation, storing operation and printing operation.

Claim 10 (Previously Presented): The method according to claim 1, further comprising:

storing information regarding a focus position and a scrolling position in the text browsing mode; and

restoring the focus position and the scrolling position, based on the stored information, in a mode in which the definition information is applied.

Claim 11 (Previously Presented): The method according to claim 10, wherein the restoring includes:

judging whether or not the focus position is within a displaying area defined by the scrolling position; and

adjusting the focus position so that the focus position is within the displaying area if it is judged that the focus position is not within the displaying area.

Claim 12 (Previously Presented): The method according to claim 11,

wherein the adjusting the focus position is performed so that a scrolling amount from the top of a page is minimized and a focus target is displayed appropriately.

Claim 13 (Previously Presented): The method according to claim 10,

wherein the restoring the focus position and the scrolling position is performed so that an item adjacent to the focus position to be restored is used as a focus target in the mode in which the definition information is applied if it is judged that a focus target in the text browsing mode does not exist at a position to be restored in the mode in which the definition information is applied.

Claim 14 (Previously Presented): The method according to claim 10,

wherein the onscreen representation in the text browsing mode and the onscreen representation in which the definition information is applied are made based on a same document described by a markup language of the page; and

wherein the information regarding the focus position and the scrolling position is stored in association with the same document.

Claim 15 (Previously Presented): The method according to claim 1,

wherein the definition information includes at least one of an external style sheet and an external script.

Claim 16 (Previously Presented): The method according to claim 15,

wherein the obtaining operation for obtaining the page includes:

(1) judging whether designation of an external style sheet is contained in the page, and obtaining the external style sheet through a network if it is judged that the designation of the external style sheet is contained in the page; and

(2) judging whether designation of an external script is contained in the page, and obtaining the external script through the network if it is judged that the designation of the external script is contained in the page.

Claim 17 (Previously Presented): The method according to claim 1, further comprising continuing obtaining operation for obtaining remaining data of the page and displaying operation for the remaining data of the page after the switching of the onscreen representation is performed.

Claim 18 (Original): A method of rendering a page, comprising:

starting obtaining operation for obtaining a page made by a markup language;

performing a text browsing mode operation on obtained part of data of the page in parallel with the obtaining operation of the page;

judging whether or not data of a predetermined number's screenfulls against the page is obtained; and

switching onscreen representation, depending on a result of the judging, from onscreen representation in a text browsing mode to onscreen representation in which definition information designated in a markup language document of the page and applied to the entire page so as to render the page as designated by the document is applied.

Claim 19 (Original): A method of rendering a page, comprising:

starting obtaining operation for obtaining a page made by a markup language;

performing a text browsing mode operation on obtained part of data of the page in parallel with the obtaining operation of the page;

judging whether or not a predetermined time period has elapsed from a start of the obtaining operation; and

switching onscreen representation, depending on a result of the judging, from onscreen representation in a text browsing mode to onscreen representation in which definition information designated in a markup language document of the page and applied to the entire page so as to render the page as designated by the document is applied.

Claim 20 (Original): A method of rendering a page, comprising:

starting obtaining operation for obtaining a page made by a markup language;

performing a text browsing mode operation on obtained part of data of the page in parallel with the obtaining operation of the page;

judging whether or not predetermined user operation is performed; and

switching onscreen representation, depending on a result of the judging, from onscreen representation in a text browsing mode to onscreen representation in which definition information

designated in a markup language document of the page and applied to the entire page so as to render the page as designated by the document is applied.

Claim 21 (Original): The method according to claim 20,

wherein the predetermined user operation includes operation for canceling the switching of the onscreen representation, and

wherein the switching of the onscreen representation is cancelled if it is judged by the judging that the predetermined user operation is performed, and the switching of the onscreen representation is performed if it is judged by the judging that the predetermined user operation is not performed.

Claim 22 (Original): The method according to claim 21,

wherein the switching is controlled in three stages including a first stage from a start of the obtaining operation of the page to a time of completion of acquisition of text data of the page, a second stage from the time of the completion of acquisition of the text data of the page to a time of completion of acquisition of the definition information, and a third stage after the completion of acquisition of the definition information, and

wherein the onscreen representation in the text browsing mode is made during the first stage, notification notifying execution of the switching is added to the onscreen representation in the text browsing mode during the second stage, and the onscreen representation in which the definition information is applied is made during the third stage if the predetermined user operation is not performed.

Claim 23 (Original): The method according to claim 22,

wherein the operation for canceling the switching of the onscreen representation is allowed only in the second stage.

Claim 24 (Original): The method according to claim 21,

wherein the operation for canceling the switching of the onscreen representation is allowed in a certain time period from completion of acquisition of the definition information.

Claim 25 (Original): The method according to claim 21,

wherein the operation for canceling the switching of the onscreen representation is allowed in a certain time period between a first time before completion of acquisition of the definition information and a second time after the completion of acquisition of the definition information.

Claim 26 (Original): The method according to claim 21,

wherein the onscreen representation in the text browsing mode is made during a first stage from a start of the obtaining operation of the page to a time of completion of acquisition of text data of the page, and

wherein the operation for canceling the switching of the onscreen representation is allowed in a certain time period from completion of acquisition of the definition information.

Claim 27 (Original): The method according to claim 26,

wherein the operation for canceling the switching of the onscreen representation is not allowed in the first stage, and operation for canceling acquisition of the data of the page is allowed in the first stage.

Claim 28 (Original): The method according to claim 21,

wherein the operation for canceling the switching of the onscreen representation includes at least one of scrolling operation, storing operation and printing operation.

Claim 29 (Original): The method according to claim 20,

wherein the predetermined user operation includes operation for performing the switching of the onscreen representation, and

wherein according to the result of the judging, the switching of the onscreen representation is performed if a result of the judging is that the predetermined user operation is performed, and the switching of the onscreen representation is not performed if a result of the judging is that the predetermined user operation is not performed.

Claim 30 (Original): The method according to claim 29,

wherein the screen representation is controlled in three stages including a first stage from a start of the obtaining operation of the page to a time of completion of acquisition of text data of the page, a second stage from the time of the completion of acquisition of the text data of the page to a time of completion of acquisition of the definition information, and a third stage after the completion of acquisition of the definition information, and

wherein the onscreen representation in the text browsing mode is made during the first stage, notification notifying that execution of the switching is available is added to the onscreen representation in the text browsing mode during the second stage, and the onscreen representation in the text browsing mode is continued during the third stage unless the predetermined user operation is performed.

Claim 31 (Original): The method according to claim 30,

wherein the operation for performing the switching of the onscreen representation is allowed in the second and third stages.

Claim 32 (Original): A method of rendering a page, comprising:

starting obtaining operation for obtaining a page made by a markup language;

performing a text browsing mode operation on obtained part of data of the page in parallel with the obtaining operation of the page;

judging whether or not acquisition of the whole data of the page is completed; and

switching onscreen representation, depending on a result of the judging, from onscreen representation in a text browsing mode to onscreen representation in which definition information

designated in a markup language document of the page and applied to the entire page so as to render the page as designated by the document is applied.

Claim 33 (Original): A method of rendering a page, comprising:

starting obtaining operation for obtaining a page made by a markup language;
performing a first mode operation in which an external style sheet obtained by the obtaining operation is applied in onscreen representation in a text browsing mode;
judging whether or not data of a predetermined number's screenfulls against the page is obtained; and

switching onscreen representation, depending on a result of the judging, from onscreen representation of the first mode operation to onscreen representation in which definition information designated in a markup language document of the page and applied to the entire page so as to render the page as designated by the document is applied.

Claim 34 (Original): A method of rendering a page, comprising:

starting obtaining operation for obtaining a page made by a markup language;
performing firstly displaying operation on data of the page without using definition information to be applied to the entire page so as to render the page as designated by a markup language document of the page; and

performing secondly displaying operation of the data of the page using the definition information in the page.

Claim 35 (Original): A method of rendering a page, comprising:

starting obtaining operation for obtaining a page made by a markup language;
performing operation in a first browsing mode which makes less rich presentation on a screen than a second browsing mode in which an external style sheet and an external script in the page are applied;

judging whether or not acquisition of the external style sheet and the external script is finished; and

switching onscreen representation, depending on a result of the judging, from onscreen representation in the first browsing mode to onscreen representation in the second browsing mode.

Claim 36 (Original): A method of rendering a page, comprising:

starting obtaining operation for obtaining a page made by a markup language;

performing operation in a first browsing mode which makes less rich presentation on a screen than a second browsing mode in which an external style sheet and an external script in the page are applied;

judging whether or not data of a predetermined number's screenfulls against the page is obtained;

switching onscreen representation, depending on a result of the judging, from onscreen representation in the first browsing mode to onscreen representation in the second browsing mode.

Claim 37 (Original): A method of rendering a page, comprising:

starting obtaining operation for obtaining a page made by a markup language;

performing operation in a first browsing mode which makes less rich presentation on a screen than a second browsing mode in which an external style sheet and an external script in the page are applied;

judging whether or not a predetermined time period has elapsed from a start of the obtaining operation; and

switching onscreen representation, depending on a result of the judging, from onscreen representation in the first browsing mode to onscreen representation in the second browsing mode.

Claim 38 (Original): A method of rendering a page, comprising:

starting obtaining operation for obtaining a page made by a markup language;

performing operation in a first browsing mode which makes less rich presentation on a screen than a second browsing mode in which an external style sheet and an external script in the page are applied;

judging whether or not predetermined user operation is performed; and

switching onscreen representation, depending on a result of the judging, from onscreen representation in the first browsing mode to onscreen representation in the second browsing mode.

Claim 39 (Original): A method of rendering a page, comprising:

starting obtaining operation for obtaining a page made by a markup language;

performing operation in a first browsing mode which makes less rich presentation on a screen than a second browsing mode in which an external style sheet and an external script in the page are applied;

judging whether or not acquisition of the whole data of the page is completed; and

switching onscreen representation, depending on a result of the judging, from onscreen representation in the first browsing mode to onscreen representation in the second browsing mode.

Claim 40 (Previously Presented): A terminal device, comprising:

a screen on which onscreen representation is formed;

a network interface interfacing with a network; and

a controller configured to perform functions including:

(a) starting obtaining operation for obtaining a page made by a markup language through the network;

(b) performing operation in a first browsing mode which makes less rich presentation on a screen than a second browsing mode in which definition information, which is information to be applied to the entire page so as to render the page, is applied;

(c) judging whether or not acquisition of the definition information is finished; and

(d) switching onscreen representation, depending on a result of the judging, from onscreen representation in the first browsing mode to onscreen representation in the second browsing mode.

Claim 41 (Previously Presented): The terminal device according to claim 40,
wherein the definition information includes an external style sheet and an external script.

Claim 42 (Previously Presented): The terminal device according to claim 40, wherein the controller
further performs a function of judging whether or not predetermined user operation is performed,
wherein the predetermined user operation includes operation for canceling the switching
of the onscreen representation, and

wherein the switching of the onscreen representation is cancelled if it is judged by the
judging that the predetermined user operation is performed, and the switching of the onscreen
representation is performed if it is judged by the judging that the predetermined user operation is not
performed.

Claim 43 (Previously Presented): The terminal device according to claim 42,
wherein the switching is controlled in three stages including a first stage from a start of
the obtaining operation of the page to a time of completion of acquisition of text data of the page, a
second stage from the time of the completion of acquisition of the text data of the page to a time of
completion of acquisition of the definition information, and a third stage after the completion of
acquisition of the definition information, and

wherein the onscreen representation in the first browsing mode is made during the first
stage, notification notifying execution of the switching is added to the onscreen representation in the
first browsing mode during the second stage, and the onscreen representation in which the definition
information is applied is made during the third stage if the predetermined user operation is not
performed.

Claim 44 (Previously Presented): The terminal device according to claim 43,
wherein the operation for canceling the switching of the onscreen representation is
allowed only in the second stage.

Claim 45 (Previously Presented): The terminal device according to claim 42,
wherein the operation for canceling the switching of the onscreen representation is
allowed in a certain time period from completion of acquisition of the definition information.

Claim 46 (Previously Presented): The terminal device according to claim 42,
wherein the operation for canceling the switching of the onscreen representation is
allowed in a certain time period between a first time before completion of acquisition of the
definition information and a second time after the completion of acquisition of the definition
information.

Claim 47 (Previously Presented): The terminal device according to claim 42,
wherein the onscreen representation in the first browsing mode is made during a first
stage from a start of the obtaining operation of the page to a time of completion of acquisition of
text data of the page, and
wherein the operation for canceling the switching of the onscreen representation is
allowed in a certain time period from completion of acquisition of the definition information.

Claim 48 (Previously Presented): The terminal device according to claim 47,
wherein the operation for canceling the switching of the onscreen representation is not
allowed in the first stage, and operation for canceling acquisition of the data of the page is allowed
in the first stage.

Claim 49 (Previously Presented): The terminal device according to claim 42,
wherein the operation for canceling the switching of the onscreen representation includes
at least one of scrolling operation, storing operation and printing operation.

Claim 50 (Previously Presented): The terminal device according to claim 40, wherein the controller
further performs functions of:

storing information regarding a focus position and a scrolling position in the first browsing mode; and

restoring the focus position and the scrolling position, based on the stored information, in the second browsing mode.

Claim 51 (Previously Presented): The terminal device according to claim 50, wherein the restoring includes:

judging whether or not the focus position is within a displaying area defined by the scrolling position; and

adjusting the focus position so that the focus position is within the displaying area if it is judged that the focus position is not within the displaying area.

Claim 52 (Previously Presented): The terminal device according to claim 51,

wherein the adjusting the focus position is performed so that a scrolling amount from the top of a page is minimized and a focus target is displayed appropriately.

Claim 53 (Previously Presented): The terminal device according to claim 50,

wherein the restoring the focus position and the scrolling position is performed so that an item adjacent to the focus position to be restored is used as a focus target in the second browsing mode if it is judged that a focus target in the first browsing mode does not exist at a position to be restored in the second browsing mode.

Claim 54 (Previously Presented): The terminal device according to claim 50,

wherein the onscreen representation in the first browsing mode and the onscreen representation in the second browsing mode are made based on a same document described by a markup language of the page; and

wherein the information regarding the focus position and the scrolling position is stored in association with the same document.

Claim 55 (Previously Presented): The terminal device according to claim 40,
wherein the definition information includes at least one of an external style sheet and an
external script.

Claim 56 (Previously Presented): The terminal device according to claim 55,
wherein the obtaining operation for obtaining the page includes:

- (1) judging whether designation of an external style sheet is contained in the page, and
obtaining the external style sheet through a network if it is judged that the designation of the
external style sheet is contained in the page; and
- (2) judging whether designation of an external script is contained in the page, and
obtaining the external script through the network if it is judged that the designation of the external
script is contained in the page.

Claim 57 (Previously Presented): The terminal device according to claim 40, the controller further
performs a function of continuing obtaining operation for obtaining remaining data of the page and
displaying operation for the remaining data of the page after the switching of the onscreen
representation is performed.

Claim 58 (Original): A computer program product for use on a terminal device, the computer
program product comprising a computer program executed to achieve a method of rendering a page,
the method comprising the steps of:

starting obtaining operation for obtaining a page made by a markup language;
performing operation in a first browsing mode which makes less rich presentation on a
screen than a second browsing mode in which an external style sheet and an external script in the
page are applied;

judging whether or not acquisition of the external style sheet and the external script is
finished; and

switching onscreen representation, depending on a result of the judging, from onscreen
representation in the first browsing mode to onscreen representation in the second browsing mode.